

Abstract:

5 The invention relates to shaping processes for producing moldings with at least one surface which has self-cleaning properties and has elevations formed by microparticles, by thermal shaping of materials comprising organic compounds by means of a mold, and also to the resultant moldings.

10 The process of the invention generates surfaces with self-cleaning properties by, prior to the thermal shaping, applying microparticles to the inner surfaces of the mold and then carrying out the molding process, in which the microparticles are pressed into and anchored into the surface of the molding, where this surface has not yet solidified. The process of the invention may be used in thermal shaping processes selected from blow
15 molding, extrusion blow molding, extrusion stretch blow molding, injection blow molding, injection stretch blow molding, thermoforming, vacuum stretch forming, pressure stretch forming, and rotary thermoforming. The process is suitable for producing three-dimensional articles, such as bottles, housing parts, drums, and many other items.

20 The process of the invention is very simple, since it makes use of existing equipment. The process of the invention gives access to self-cleaning surfaces which have particles with a fissured structure, without any need to apply an additional emboss layer or foreign-material carrier layer to the
25 moldings.